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## A VISUAL APPROACH: A COROLLARY OF NAPIER'S INEQUALITY

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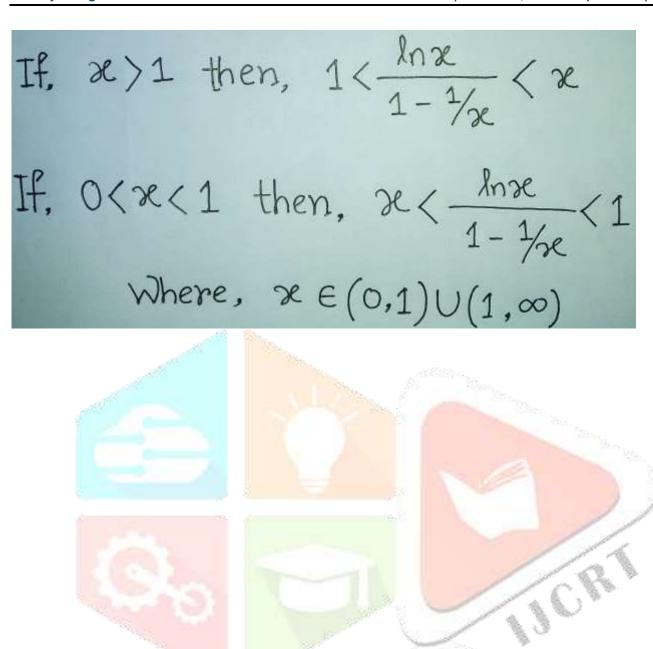
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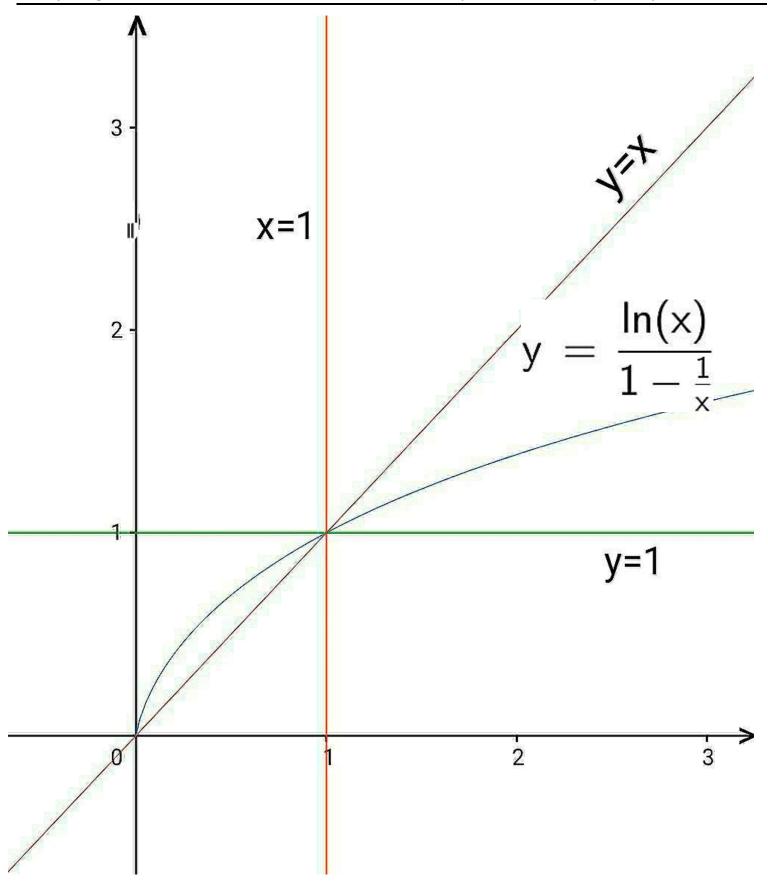
#### **COROLLARY:**

If, 
$$x > 1$$
 then,  $1 < \frac{\ln x}{1 - \frac{1}{2}} < x$ 

If,  $0 < x < 1$  then,  $x < \frac{\ln x}{1 - \frac{1}{2}} < 1$ 

Where,  $x \in (0,1) \cup (1,\infty)$ 





## Proof is clear from the above diagram.

#### 1. Acknowledgment:

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### **Reference:**

[1] Roger B. Nelson, Proof Without Words 1, P-66, Mathematical Association of America.